IN THE CLAIMS:

Please amend claims 1 and 4-6, and add new claims 7-8 as follows:

 (Currently Amended) A method of calculating the frequency of appearance of a keyword, using a first database in which information about a base sequence or an amino acid sequence is stored and a second database in which document data is stored, said method comprising:

a first text data extraction step for extracting first text data from said first database based on which contains a base sequence or an amino acid sequence of a gene or protein of interest inputted by a user;

an identifier extraction step for extracting an identifier identifying document data in said first text data from said <u>extracted</u> first text data <u>which contains the base</u> sequence or the amino acid <u>sequence</u>;

a second text data extraction step for extracting second text data from said second database based on which contains said extracted identifier; [[and]]

an appearance frequency calculation step for sequentially reading keywords from a keyword table containing keywords related to of known functions or characteristics of genes or proteins from said first database, and for calculating [[the]] a frequency of appearance of each of said keywords in said extracted second text data; and

a displaying step for displaying a frequency of appearance of each of said keywords in a corresponding position in said keyword table.

- 2. (Original) The keyword frequency calculating method according to claim 1, wherein said keyword table has a tree structure in which keywords are stored such that they are classified according to categories, and wherein said appearance frequency calculation step comprises a step for generating a frequency calculation result table of a tree structure, said table containing the frequency of appearance of a keyword and the frequency of appearance of an upper-level category to which the keyword belongs.
- 3. (Original) The keyword frequency calculating method according to claim 1, wherein said first text data extraction step comprises a step for extracting first text data from said first database for each of a plurality of sequences entered by the user.

4. (Currently Amended) A program embedded in a storage medium for causing a computer to carry out a keyword frequency calculation method characterized by of calculating the frequency of appearance of a keyword, using a first database in which information about a base sequence or an amino acid sequence is stored and a second database in which document data is stored, said method program comprising:

a first text data extraction [[step]] module for extracting first text data from said first database based on which contains a base sequence or an amino acid sequence of a gene or protein of interest inputted by a user;

an identifier extraction [[step]] <u>module</u> for extracting an identifier identifying document data in said first text data from said <u>extracted</u> first text data <u>which contains</u> the base sequence or the <u>amino acid sequence</u>;

a second text data extraction [[step]] <u>module</u> for extracting second text data from said second database <u>based on which contains</u> said <u>extracted</u> identifier; [[and]]

an appearance frequency calculation [[step]] module for sequentially reading keywords from a keyword table containing keywords related to of known functions or characteristics of genes or proteins from said first database, and for calculating [[the]] a frequency of appearance of each of said keywords in said extracted second text data; and

a displaying module for displaying a frequency of appearance of each of said keywords in a corresponding position in said keyword table.

- 5. (Currently Amended) A program embedded in a storage medium for causing a computer to carry out a keyword frequency calculation method according to claim 4, further eharacterized by comprising a module for providing said keyword table having with a tree structure in which keywords are stored such that they are classified according to categories, and wherein said appearance frequency calculation module step comprises a step for generating generates a frequency calculation result table of a tree structure, said table containing the frequency of appearance of a keyword and the frequency of appearance of an upper-level category to which the keyword belongs.
- 6. (Currently Amended) A program embedded in a storage medium for causing a computer to carry out a keyword frequency calculation method according to claim 4, further characterized by wherein said first text data extraction module step comprising

- a step for extracting extracts first text data from said first database for each of a plurality of sequences entered by the user.
- 7. (New) The keyword frequency calculating method according to claim 2, wherein a frequency of each category in the keyword table is the sum of frequencies of lower-level categories belonging to the category.
- 8. (New) A program embedded in a storage medium for causing a computer to carry out a keyword frequency calculation method according to claim 5, wherein a frequency of each category in the keyword table is the sum of frequencies of lower-level categories belonging to the category.